NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offi-Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.usplo.go

### NOTICE OF ALLOWANCE AND FEE(S) DUE

7278 7590 DARBY & DARBY P.C. P.O. BOX 770

04/09/2010

Church Street Station New York, NY 10008-0770

EXAMINER PAUL, ANTONY M

PAPER NUMBER ARTHNIT 2827

DATE MAILED: 04/09/2010

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/598.526 10/20/2006 Andre Luis Martins

TITLE OF INVENTION: METHOD OF CONTROLLING THE SPEED OF AN ELECTRIC MOTOR

04304/0205369-US0 6929

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/09/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

indicated unless correct maintenance fee notifica	correspondence including defected of the defected of the tions.  ENCE ADDRESS (Note: Use Br	herwise in Block 1, by	(a) specifying a new o	Note Feet	pondence address; : A certificate of s) Transmittal. Thi	and/or mailing	(b) indicating a sepa can only be used for icate cannot be used for	rate "FEE ADDI r domestic mailir or any other acco	RESS" for ngs of the impanying
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7278 7590 0409(2010) DARBY & DARBY P.C. P.O. BOX 770 Church Street Station				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (51) 273-2885, on the date indicated below.					
New York, NY	10008-0770							(Деров	sitor's name)
									(Signature)
									(Date)
APPLICATION NO.	ATION NO. FILING DATE		FIRST NAMED INVENTO			ATTO	RNEY DOCKET NO.	CONFIRMATIO	N NO.
10/598,526	10/20/2006		Andre Luis Martin	ıs		043	04/0205369-US0	6929	
	: METHOD OF CONTE								
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE FEE TOTAL FEE(S) DUE		DATE D	UE	
nonprovisional	NO	\$1510	\$300		\$0 \$1810		\$1810	07/09/20	)10
EXAM	EXAMINER		CLASS-SUBCLASS						
PAUL, AN		2837	318-799000						
I. Change of correspondence address or indication of "Fee Address" (57 CFR 1.86.) CFR 1.86.) CFR 1.86.) The correspondence address (or Change of Correspondence Address form PTO/SB/12.) attached.  The Address "indication for "Fee Address" Indication form PTO/SB/12. or more recent) attached. Use of a Custome Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatived (2) the names of a single firm (thiving as a member a registered autories) or agent) and the names of up to 2 sisted, no name will be printed.						
(A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	ified below, no assigner pletion of this form is NO	e data will appear on t OT a substitute for filing (B) RESIDENCE: (C	he pa g an a	ntent. If an assign assignment. and STATE OR C	OUNT	RY)		
Please check the appropr	riate assignee category or	r categories (will not be p	orinted on the patent):	_	Individual	orporati	on or other private gro	up entity Go	vernment
4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies			49. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)    A check is enclosed.     Payment by credit card. Form PTO-2038 is attached.     The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Depoid Neccoun Number (enclose an extra copy of this form).						
5. Change in Entity Sta	itus (from status indicate is SMALL ENTITY stati		☐ b. Apolicant is no	lone	ser claiming SMAI	I.EN	TITY status. See 37 CF	R 1.27(e)(2)	
NOTE: The Issue Fee an interest as shown by the									er party in
interest as snown by the	records of the Clinted Sta	nes ratem and Trauemai	k Office.						
Authorized Signature					Date				-
Typed or printed name			Registration No				-		
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



### UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,526	10/20/2006		Andre Luis Martins	04304/0205369-US0	6929
7278	7590	04/09/2010		EXAM	UNER
DARBY & DA	RBY P.C.	PAUL, ANTONY M			
P.O. BOX 770				ART UNIT	PAPER NUMBER
Church Street Station New York, NY 10008-0770				2837 DATE MAILED: 04/09/201	0

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 363 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 363 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Notice of Allowability

Application No.	Applicant(s)					
10/598,526	MARTINS, ANDRE LUIS					
Examiner	Art Unit					
ANTONY M. DALII	2027					

— The MAILING DATE of this communication appears on the cover sheet with the correspondence addressAll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 02/16/2010.
- 2. The allowed claim(s) is/are 1 and 6 thru 13.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some\* c) 

    None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
      - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) I hereto or 2) to Paper No./Mail Date \_\_\_\_\_
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Examiner's Comment Regarding Requirement for Depos of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance

## 9. 🗌 Other \_\_\_

/BENTSU RO/

Primary Examiner, Art Unit 2837

Application/Control Number: 10/598,526

Art Unit: 2837

### REASONS FOR ALLOWANCE

Claims 1 and 6 thru 13 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: In regard to claim 1, the prior art of record fail to teach a method of controlling the speed of an electric motor powered by a triac to maintain a preset speed, by varying the electrical angle at which the triac is triggered, comprising the steps of:

producing a control signal based on said first derivative related signal and said Error P related signal to adjust the triac electrical triggering angle to operate the motor at the preset speed, wherein: the step of producing said first derivative related signal further comprises the steps of measuring the motor speed at different times and calculating the first derivative of the measured motor speed, determining a yield value (Yield D) of the value of the first derivative from a numerical range of values, and producing a band (Band D) value as the product of the value of said calculated first derivative and said Yield D value:

the step of producing said signal related to said Error P value further comprises the steps of: determining a yield value (Yield P) of the Error P value from a numerical range of values, and producing a band (Band P) value as the product of the value of said Error P signal and said Yield P value; and the step of producing said control signal further comprises the steps of: producing a signal of the sum of said Band D and said Band P values (Total Error), and converting said Total Error signal into a signal which corresponds to the error of the triac electrical triggering angle needed to achieve the motor preset speed and in combination with the other limitations of the base claim.

Art Unit: 2837

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Information disclosure Statement/Drawings

Examiner acknowledges the receipt of prior art documents including the search report dated 09/01/06. Examiner also acknowledges the receipt of drawing dated 02/16/10.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTONY M. PAUL whose telephone number is (571) 270-1608. The examiner can normally be reached on Mon - Fri, 7:30 to 5, Alt. Fri, East.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benson Walter can be reached on (571) 272-2227. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2837

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BENTSU RO/ Primary Examiner, Art Unit 2837

/Antony M Paul/ Examiner, Art Unit 2837

04/07/2010